

ABSTRACT OF THE DISCLOSURE

A network of inter-connectable optical fibers equipped, at strategic locations, with devices that can respond to optical signals emanating from a particular source as part of a message or data stream to determine the destination and select suitable fibers to assure its
5 arrival at the point of destination, using at said locations lambda-extractor switches for single frequencies to signal the switching logic, nanosecond responsive switches to re-direct the data flow into appropriate other optical fibers on an instantaneous time basis, and massive cross-connecting switches that enable the connection to any incoming fiber to any outgoing fiber within one module in a mechanically asynchronous manner.

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